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A DRI ICA TION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.			8412	7441
09/775,999	02/02/2001	Paul Stiros	0412	/ <del></del>
27752 7590 08/12/2003 THE PROCTER & GAMBLE COMPANY INTELLECTUAL PROPERTY DIVISION WINTON HILL TECHNICAL CENTER - BOX 161			13	
			EXAMINER	
			CHORBAJI, MONZER R	
6110 CENTER HILL AVENUE CINCINNATI, OH 45224			ART UNIT	PAPER NUMBER
CINCINNATI	, OH 43224		1744	
			DATE MAILED: 08/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.  Office Action Summary  Examiner  MONZER R CHORBAJI  Applicant(s)  Applicant(s)  Art Unit  MONZER R CHORBAJI  1744					
Office Action Summary  Examiner  MONZER R CHORBAJI  1744	-				
MONZER R CHORBAJI 1744					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on 19 May 2003.					
2a) This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-19</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional applicatio	n).				
a) ☐ The translation of the foreign language provisional application has been received.  15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)  6) Other:					

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#### **DETAILED ACTION**

This non-final office action is in response to the amendment received on 05/19/2003

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

2. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In amended claim 16, line 10; applicant uses the phrase "distinct from deodorized air". The meaning of "distinct" is not clear. How a second substance is distinct from the deodorized air? The examiner is not clear on what the applicant is trying to claim. Explanation and rewarding of the claim is required in order to understand the meaning of claim 16.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 1-13, 15, 17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aibe et al (U.S.P.N. 5,403,548) in view of Bermas (U.S.P.N. 5,772,959).

With respect to claims 1, 9 and 11, Aibe et al teaches the following: an air-deodorizing device (figure 3, 31) and a method (col.20, test example 3), which includes a forced air filter member (figure 3, unlabeled entire filter structure made up of 36 and the filter medium, which is disposed in upper part of 35), a filter element (figure 3, 36) with a filter medium (col.4, lines 5-7), an air moving member (figure 3, 35) that draws air through at least a portion of the filter element (figure 3, 36, the arrows, and 38) such that the filter member is detachable from it (figure 1, 6 and col.13, lines 35-38), positioning the filter member inside a confined space (col.12, lines 67-68 and col.13, lines 1-2), neutralizing odor in the air of the confined space, positioning a second passive filter

member (col.20, lines 63-66 and table 3, gas flow rate column) inside a confined space (col.20, test example 3) with a second substance (col.20, line 65) to deodorize the air. However, with respect to claims 1, 9, and 11; Aibe et al. fails to disclose the use of sodium bicarbonate. Bermas, which is in the art of deodorizing the air in refrigerators (col.1, lines 11-15) using passive deodorizers (figure 1, 10), teaches that combining activated carbon and sodium bicarbonate is known in the art of deodorizing refrigerators (col.1, lines 49-54). Thus, it would have been obvious for a person having ordinary skill in the art of deodorizing air in the refrigerators to utilize the teachings of Bermas to Aibe et al. in order to maximize the rate of deodorization of air inside refrigerators by combining passive and active deodorizers.

With respect to claims 2-5 and 17, Aibe et al teaches the following: the filter member (figure 2, 7) includes a cartridge (figure 1, 6) which has a top portion and a bottom portion (figure 2, such parts of 6 are not labeled), also the cartridge has air inlets in its top (figure 2, top portion of 6 is not labeled) and air outlets on its bottom (figure 2, bottom portion of 6 is not labeled), the air moving member (figure 2, the lower part of 2 which includes a fan) has a top portion (serves as a base for the filter member) with an air inlet therein (figure 2, top portion of the lower part of 2 on which 7 lies directly above), the cartridge (figure 1, 6) sits on the top portion of the air moving member such that the air outlets on the bottom of the cartridge partially in alignment with the air inlet on the air moving member, and the air moving member includes a fan (figure 2, 8).

Furthermore, the filter member is intrinsically held in place by the gravitational forces (suction of the fan) and the surface topology of the interfacing parts of filter member and

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air moving member. In addition, Aibe et al teaches that the location of the fan, the cartridge, the inlets and the outlets can be varied (col.9, lines 32-51, and col.14, lines 21-31). With respect to claim 5, the use of sodium bicarbonate has been addressed with regard to claims 1, 9, 11.

With respect to claims 6-7, Bermas teaches the following: filter element (figure 2, 10) includes a container (figure 2, 40) with at least two air pervious sides (figure 4, 40 has two unlabeled sides), which contains sodium bicarbonate (col.1, line 51), the container is a bag (col.4, lines 51-52) made of air pervious material with sodium bicarbonate therein, and the filter medium includes activated carbon (col.4, line 41).

With respect to claim 8, Aibe discloses the use of activated carbon as part of the filter medium (col.4, lines 5-6).

With respect to claims 10 and 12, Aibe teaches that the confined space is inside a refrigerator (col.20, lines 22-23).

With respect to claims 13 and 15, Aibe discloses that the device can be used in a refrigerator (col.20, lines 22-23), which intrinsically includes compartments separate from the remainder of the confined space. Thus, in order to deodorize air in a refrigerator, inserting the device in the compartments or in the main section of the refrigerator is an intrinsic step in achieving such a goal. However, Aibe fails to disclose the use of sodium bicarbonate. Bermas teaches the use of a passive filter member (figure 1, 10), which includes sodium bicarbonate (col.1, line 51) to deodorize air in a refrigerator. As a result, it would have been obvious for a person having ordinary skill in the art of deodorizing air in the refrigerators to utilize the teachings of Bermas to Aibe in

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order to optimize the rate of deodorization of air inside refrigerators by combining passive and active deodorizers.

With respect to claim 19, the filter member (36) of Aibe is lifted upward from the air-moving member (35) for replacement (col.13, lines 35-38).

7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aibe et al (U.S.P.N. 5,403,548) in view of Bermas (U.S.P.N. 5,772,959) and further in view of Ganz (U.S.P.N. 2,025,657).

With respect to claim 18, both Aibe et al and Bermas fail to teach the concept of having complementary hemispherical interfacing parts between the filter member and the air-moving member. Ganz discloses a hemispherical filter member (figure 1, 10 and 12) for deodorizing air (col.1, lines 5-6). Thus, It would have been obvious to one having ordinary skill in the art to modify the air-moving member of Aibe et al to include a spherical filter member since such a shape has an attractive appearance (Ganz, col.1, lines 16-18).

8. Claims 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aibe et al (U.S.P.N. 5,403,548) in view of Bermas (U.S.P.N. 5,772,959) and further in view of Aibe et al (U.S.P.N. 5,288,306).

With regard to claims 14 and 16, both Aibe et al and Bermas fail to teach of interchangeably using first and second filter member in association with the air-moving member. However, Aibe et al teaches multiple filter members (figure 23, 195 and 196) that can be interchangeably used (col.8, lines 39-40 and col.11, lines 3-6) relative to the air-moving member (figure 23, 194) by being detachable. Also, Aibe et al discloses

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using various distinct filter mediums (figure 1, 6 and 7). Thus, it would have been obvious to one having ordinary skill in the art to modify the method and apparatus of Aibe to include multiple filter members since utilizing a plurality of filter members having varying adsorbent affinities for malodorous components, even a gas containing many kinds of malodorous or toxic components can be efficiently eliminated (Aibe, col.8, lines 41-45).

### Response to Arguments

**9.** Applicant's arguments filed 05/19/2003 have been fully considered but they are not persuasive.

On page 6 of the response, applicant argues, "The combination of references cited do not contain any disclosure of a device in which air is forced through a sodium bicarbonate containing filter medium". Aibe et al discloses forcing air through activated carbon filter (figure 3, 36 and the arrows). Bermas teaches combining sodium bicarbonate with activated carbon (col.1, lines 50-55) such that since both passive and active deodorizers are known to deodorize air, then using both would result in obvious and expected results, which are to increase the rate of deodorization within refrigerators. Such a result is within the preview of an artisan. Also, Aibe does teach of using passive deodorizers in test example 3 (col.20, lines 63-66 and table 3, gas flow rate column).

On page 6 of the response, applicant argues, "neither reference discloses the use of sodium bicarbonate in a filter member that is sufficiently pervious to air so that said fan can convey air through said filter member". Bermas discloses combining

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sodium bicarbonate with activated carbon. In addition, Bermas teaches that it is known for a fan to draw air through the filter to deodorize the air (col.2, lines 11-17). One skilled in the art would recognize using the appropriate amount of sodium bicarbonate in a filter in order to draw air through it to deodorize the air as disclosed by Aibe et al. Thus, Bermas reference does teach that it is known to combine activated carbon with sodium bicarbonate and to draw air through a filter using a fan.

On page 7 of the response, applicant argues, "There is absolutely no teaching or disclosure of the interfacing parts of a filter member and an air moving member having complementary hemispherical shapes". The Ganz reference is used to show that a spherical filter member is known such that It would have been obvious to one having ordinary skill in the art to modify the air-moving member of Aibe et al to include a spherical filter member since such a shape has an attractive appearance (Ganz, col.1, lines 16-18). As a result, such a modification would result of interfacing parts of a filter member and an air moving member having complementary hemispherical shapes.

On page 7 of the response, applicant argues, "The examiner has not pointed to any teaching in any of the references that discloses a device that emits a substance that is distinct from deodorized air". Claim 16 includes the phrase "and/or" such that for example, a first deodorizing and emitting device or a first deodorizing or emitting device. Claim 16 does not require a device that emits a substance. In addition, Aibe et al discloses using various distinct filter mediums (figure 1, 6 and 7) such that each filter is positioned inside a confined space independent of the first filter member (figure 1, 6 and 7). Furthermore, each filter medium is capable of producing a distinct deodorized air.

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### Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MONZER R CHORBAJI whose telephone number is

(703) 305-3605. The examiner can normally be reached on M-F 8:30-5:00.

11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ROBERT J WARDEN can be reached on (703) 308-2920. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

305-3599 for regular communications and (703) 305-7719 for After Final

communications.

**12.** Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0661.

Monzer R. Chorbaji MRC Patent Examiner AU 1744

July 21, 2003

ROBERT J. WARDEN, SR. SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

Robert Y. Warden, In.